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**Low Flow Jet Sources for Serial Crystallography** D.P. DEPONTE, U. WEIERSTALL, R.B. DOAK, J.C.H. SPENCE, D. STARODUB, G. HEMBREE, Dept. physics, Arizona State University, J. WARNER<sup>1</sup>, M. HUNTER, Dept. Chemistry, Arizona State University — Motivated by the need for a high particle density, water encapsulated protein source we have examined the low-flow regime of thin jets in a co-flowing gas [1] as well as Rayleigh jets. The former method is a reliable source of micron size drops whereas the latter method was found to be unreliable for drop production less than twenty micron due to clogging. For a source consisting of two concentric tubes, we examine the high density region of the jet and effects of triggering, alignment, aperture size flow rate and pressure external to the source.

[1] A.M. Ganan-Calvo Phys. Rev. Lett. 80, 1998

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